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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

37 SEP 2004

Applicant's or agent's file reference 03op104p	FOR FURTHER ACTION	SeeNotification Examination	onofTransmittalofInternationa Report (Form PCT/IPEA/416	alPreliminary
International application No. PCT/KR2003/000598	International filing date(day/m 26 MARCH 2003 (26.0		Priority date (day/month/ye 29 MARCH 2002 (29:03	
International Patent Classification (IPC IPC7 A61K 35/78				
Applicant KIM, Sung-Jin				
This international preliminary of and is transmitted to the application.	examination report has been pre- nt according to Article 36.	pared by this Inte	rnational Preliminary Exami	ning Authority
This report is also accom	panied by ANNEXES, i.e., sheets for this report and/or sheets counter the Administrative Instructions to	ts of the description taining rectificat	on, claims and/or drawings v	which have been nority (see Rule
These annexes consist of a total	d ofsheets.			
I X Basis of the report II Priority III X Non-establishment IV X Lack of unity of it V X Reasoned statem citations and exployer Certain document VII Certain defects in	nt of opinion with regard to nove invention ent under Article 35(2) with rega anations supporting such statem	ard to novelty, inve		cability;
Date of submission of the demand 29 OCTOBER 2003 (29.10.2)		ate of completion 27 MAY 20	of this report 004 (27.05.2004)	
Name and mailing address of the IPH Korean Intellectual Prop 920 Dunsan-dong, Seo-n Republic of Korea Facsimile No. 82-42-472-7140	perty Office gu, Daejeon 302-701,	uthorized officer YEO, Ho Sur		(聖明)



Internal aplication No.
PCT/KR2003/000598

I.	Ba	sis (of the report	
1.	Wi	ith r	egard to the elements of the international application:*	-
	X] t	he international application as originally filed	
	Ē		the description:	
	L	ا	pages	, as originally filed , filed with the demand
		-	pages, filed with the letter of	
	-	_	hagos	
			the claims: pages	, as originally filed
1		,	, as amended (together with any	statment) under Article 19
			pages, filed with the letter of	, filed with the demand
		_	pages, fried with the letter of	
]	the drawings:	, as originally filed
			pagespages	
			pages filed with the letter of	
	Γ	7	the sequence listing part of the description:	
	_		pages	, as originally filed , filed with the demand
1			pages, filed with the letter of	, rist to contail
2.		With	regard to the language, all the elements marked above were available or furnished to this Author	ority in the language in which
1		tha i	nternational application was filed unless otherwise indicated under this item.	
	•	Thes	se elements were available or furnished to this Authority in the following language	
			the language of a translation furnished for the purposes of international search (under Rule 23.	.1(b)).
	[the language of publication of the international application(under Rule 48.3(b)).	
	[the language of the translation furnished for the purposes of international preliminary exami or 55.3).	ination(under Kules 55.2 and/
3	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the internation preliminary examination was carried out on the basis of the sequence listing:			ication, the international
	Ī		contained in the international application in written form.	
	Ĺ		filed together with the international application in computer readable form.	
	l		furnished subsequently to this Authority in written form.	
	į		furnished subsequently to this Authority in computer readable form	wand the disclasses in the
	l		The statement that the subsequently furnished written sequence listing does not go be international applicationas as filed has been furinshed.	
	l		The statement that the information recorded in computer readable form is identical to the been furnished.	written sequence listing has
4	1.		The amendments have resulted in the cancellation of:	
		_	the description, pages	
			the claims, Nos.	
1			the drawings, sheet	
5	5.		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	
	i	in th	lacement sheets which have been furnished to the receiving Office in response to an invitation u his opinion as "originally filed." and are not annexed to this report since they do not contain 70.17).	nder Article 14 are referred to n amendments (Rules 70.16
	**	Any	replacement sheet containing such amendments must be referred to under item I and annexed	to this report.



Internal aplication No.
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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
the entire international application,				
K same ross				
because:				
the said international application, or the said claims Nos. 15-43 relate to the following subject matter which does not require an international preliminary examination (specify):				
The subject-matter of claims 15-43 does not require an international preliminary examination with respect to industrial applicability as it is directed to a method for treatment of the human or animal body by therapy (PCT Article 34(4)(a)(i), Rule 67.1(iv)).				
thedescription, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):				
·				
the claims, or said claims Nos are so inadequately supported				
by the description that no meaningful opinion could be formed.				
no international search report has been established for said claims Nos.				
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 				
the written form has not been furnished or does not comply with the standard.				
the computer readable form has not been furnished or does not comply with the standard.				

Internal	aplication No.	
PCT/KR200	3/000598	

IV.I	Lack o	of unity of invention			
1.	. In response to the invitation to restrict or pay additional fees the applicant has:				
		restricted the claims.			
	$\overline{\mathbb{X}}$	paid additional fees.			
	\exists	paid additional fees under protest.			
	同	neither restricted nor paid additional fees.			
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:			
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is			
		complied with.			
	X	not complied with for the following reasons:			
		Claims 1-8 and 46 concern a pharmaceutical composition comprising an extract of Liriopsis tuber for protecting brain cells or improving memory. Claims 9-11 concern a foodstuff comprising the composition according to claim 1. Claims 12-14 concern a beverage comprising the composition according to claim 1. The independant claim 44 and 45 concerns the use of an extract of Liriopsis tuber for the preparation of a medicament for preventing or treating neurodegenerative diseases and dementia, respectively.			
		Although claims $1-14$ and $44-46$ are relevant to the composition comprising the same active ingredient, there is no technical relationship among a pharmaceutical composition, foodstuff and beverage, and among neurodegenerative diseases, dementia and memory.			
		Hence, the application contains the following separate groups of inventions not so linked as to form a single general inventive concept (PCT Rule 13.1):			
		 i) Claims 1-8 and 46 ii) Claims 9-11 iii) Claims 12-14 iv) Claim 44 v) Claim 45 			
4	esta	nsequently, the following parts of the international application were the subject of international preliminary examination in ablishing this report: all parts. the parts relating to claims Nos. 1-14, 44-46			

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability	y;
oitotions and explanations supporting such statement	

			·	
1.	Statement			*****
	Novelty (N)	Claims	1-14, 44-46	<u>Y</u> ES
	Novely (11)	Claims		NO
	Instanting stop (IS)	Claims	1-14, 44-46	YES
	Inventive step (IS)	Claims		NO
	Industrial applicability (IA)	Claims	1-14, 44-46	YES
	industrial approaching (2-1)	Claims		NO

2. Citations and explanations (Rule 70.7)

The present invention relates to a composition comprising an extract of Liriopsis tuber for protecting brain cells or improving memory.

The following documents have been considered for the purpose of this report:

 $D1 = KR \ 2001 - 0110284 \ A \ (12. 12. 2001)$

D2 = KR 2001 - 0073614 A (01.08.2001)

D1 discloses a beverage comprising an extract of Liriopsis tuber which has hypoglycemic, anti-inflammatory, anti-cancer and anti-glycosuria activity.

D2 discloses a wine comprising Liriopsis tuber.

Even though D1 and D2 are relevant to the present invention, none of them teach or fairly suggest the usefulness of Liriopsis tuber for preventing and treating neurodegenerative diseases caused by brain cell damage and for improving memory.

As a consequence, claims 1-14 and 44-46 meet the criteria set out in PCT Article 33(2)-(4).